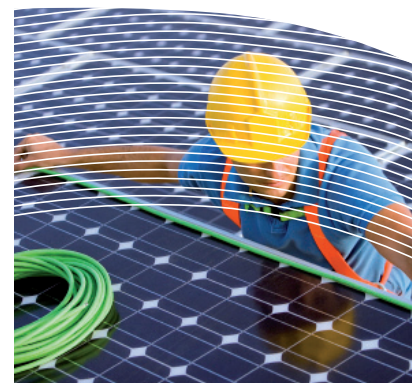
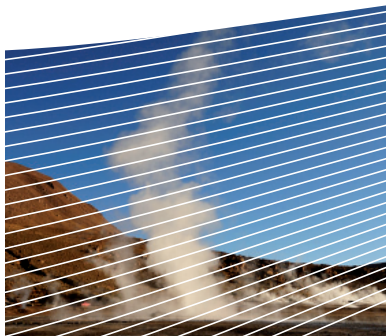
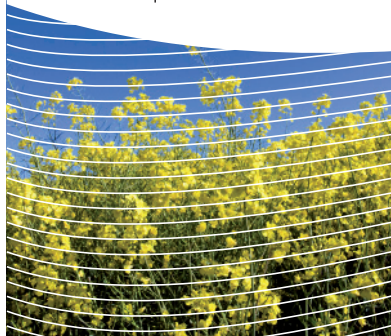




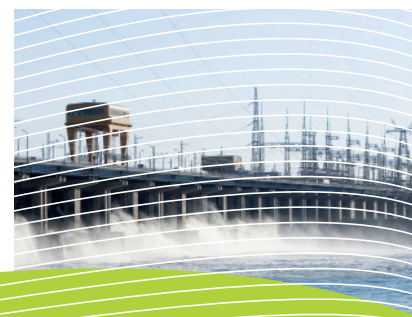
European Commission



STRATEGIC ENERGY TECHNOLOGIES  
INFORMATION SYSTEM

**SETIS**

TOWARDS A LOW-CARBON FUTURE



**EU SET-Plan**  
Strategic Energy  
Technology Plan

Driving a revolution in Europe's energy systems

**SETIS**

PROVIDING INFORMATION FOR **DECISION-MAKING**

<http://setis.ec.europa.eu>



European Commission  
**SETIS** Strategic energy technologies information system

Europe Direct is a service to help you find answers  
to your questions about the European Union

Free phone number (\*)

**00 800 6 7 8 9 10 11**

(\*) Certain mobile telephone operators do not allow access to 00 800 numbers or these calls may be billed.

More information on the European Union is available  
on the Internet (<http://europa.eu>)

Luxembourg: Publication Office of the European Union

ISBN 978-92-79-17448-3

doi: 10.2790/25805

© European Union, 2010

Reproduction is authorised provided the source is acknowledged.

*Printed in the Netherlands*

Printed on chlorine-free paper



Europe, like the rest of the world, faces huge energy and climate change challenges. Currently the EU depends on fossil fuels for 80% of its energy, with concomitant negative effects on the emission of greenhouse gases. To tackle this problem, there is an urgent need for a complete reinvention of our energy system, with low-carbon technology as the key enabler.

**SETIS**  
treats each  
technology  
on a neutral  
and objective  
basis,

Recognising that innovation is one of the decisive factors to low-carbon technology development, the EU established the European Strategic Energy Technology Plan (SET-Plan).

By transforming our current energy system, the EU, through SET-Plan, aims to meet the ambitious goals to reduce greenhouse gas emis-

sions by 20%, to have a 20% share of energy from low-carbon energy sources and to have a 20% reduction in the use of primary energy by improving energy efficiency by 2020, with a long-term ambition to reduce emissions by 80-95% by 2050.

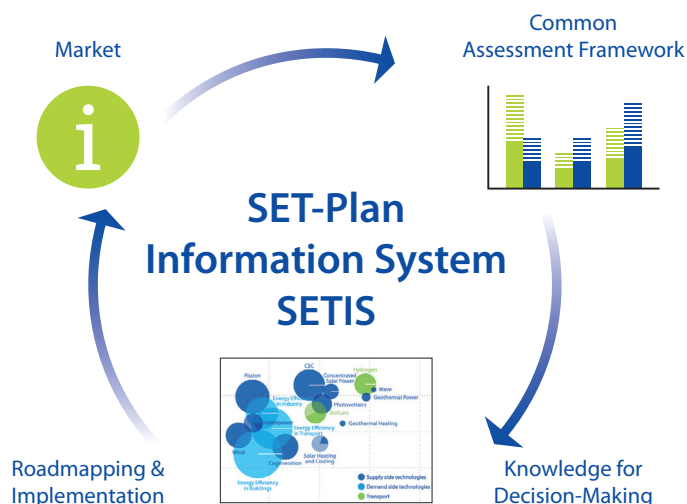
To achieve such goals, the SET-Plan called for effective strategic planning and implementation at EU level of actions leading to the development and deployment of cost effective and better performing low-carbon energy technologies. Effective governance thereof depends not only on a strong steering instrument but also on the availability of timely and reliable information that underpins

decision making. The SET-Plan put in place a dedicated information system, called:

### SETIS – the Strategic Energy Technologies Information System

with the goal to support planning, monitoring and assessment within the SET-Plan and to develop an integrated approach for information exchange on energy technologies and capacities for innovation.

A dedicated SETIS website disseminates the information and knowledge that supports the SET-Plan decision-making process and moves forward the effective and efficient implementation of SET-Plan.





## What is SETIS?

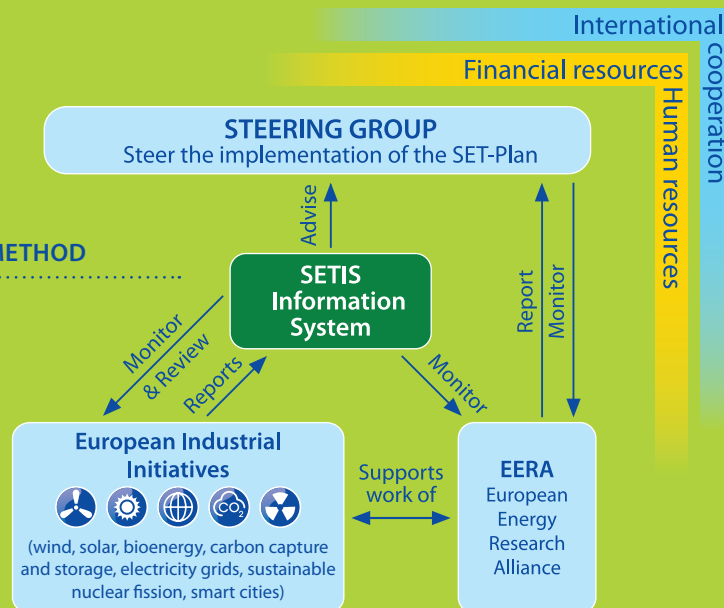
SETIS is the Information System for the European Strategic Energy Technology (SET)-Plan. It supports strategic energy planning and implementation of the European Energy Technology policy.

SETIS helps define new priorities and monitors progress of the SET-Plan, including identifying corrective policy measures if needed.

SETIS supports the SET-Plan governance (Steering Group), working together with all relevant stakeholders, such as Member State authorities, European Technology Platforms, research organisations and the industrial and financial communities.

*A tool to support  
the decision-making  
of the EU Energy  
Technology Policy,*

### SET-PLAN METHOD





# What does SETIS do?

SETIS performs in-depth analyses of the current status, potential and full implications of Research, Development and Demonstration (RD&D) investments on the performance and deployment of new energy technology options and their impact on the European Energy and Climate Change Policy goals.

Across the EU, SETIS:

- Conducts analyses on public and private R&D expenditures of the SET-Plan low-carbon technology priorities
- Assesses low-carbon technological pathways, particularly regarding technical performance and cost-effectiveness, potential contribution to CO<sub>2</sub> emission reduction and to the EU security of supply
- Analyses issues and developments related to spatial planning and infrastructure
- Studies the transition to a low-carbon economy and stimulates the evolution of the European Energy Technology Mix.

SETIS also runs R&D energy technology scoreboards and develops and operates a portfolio of tools and mathematical models.



*An integrated approach for up-to-date data and analysis on energy technologies,*



## The SETIS website



<http://setis.ec.europa.eu/>

SETIS online provides validated, up-to-date information and analyses on energy technologies and technology innovation through two core activities:

### *Capacities mapping...*

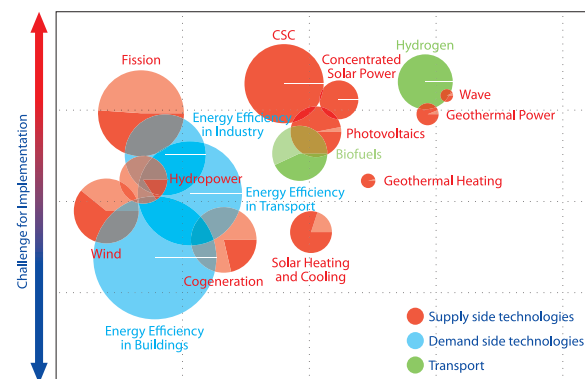
The Capacities Map quantifies the current public and private R&D expenditures on the priority low-carbon energy technologies in the EU.

### *Technology mapping...*

The Technology Map reports vital information on the status and prospects of low-carbon technology goals in the EU.

The website also features a variety of online applications: The SETIS 'bubble' graph gives a comprehensive overview of the status and potential of energy technologies between

2010 – 2050. It also shows the potential leverage effect of the SET-Plan. The relative maximum energy potential of each technology is indicated by the size of its circle.



An Energy Cost Calculator computes the cost of energy production and CO<sub>2</sub> emissions (direct and indirect) in 2020 and 2030. It enables a comparative assessment of technologies for power and heat generation.

A new feature is BIOMAP, which provides unique information on EC funded and industrial projects on biofuel technologies and feedstocks, including legislation, quality specifications and the key stakeholders.

The site also features Technology Information Sheets on each low-carbon technology, plus articles, announcements and interviews with key players.





<http://setis.ec.europa.eu>

PROVIDING INFORMATION FOR **DECISION-MAKING**

## Who is behind SETIS?

SETIS is managed by the European Commission through the Joint Research Centre (JRC), in close cooperation with a broad range of stakeholders. The fact that JRC is an independent scientific body facilitates its acceptance by all the players. SETIS thus works as a transparent information platform both between the actors involved and towards the broader public.

JRC works in close collaboration with Member States and European stakeholders such as the European Technology Platforms, industrial trade associations, the European Energy Research Alliance, European Industrial Initiative teams, international organisations and the finance community.

*Transparent  
and agreed  
methodologies  
for monitoring  
progress  
of energy  
technologies,*

### FOR FURTHER INFORMATION

#### SET-Plan

[http://ec.europa.eu/energy/technology/set\\_plan/set\\_plan\\_en.htm](http://ec.europa.eu/energy/technology/set_plan/set_plan_en.htm)

#### SET-Plan Steering Group (SET-Group)

[http://ec.europa.eu/energy/technology/set\\_plan/steering\\_group\\_en.htm](http://ec.europa.eu/energy/technology/set_plan/steering_group_en.htm)

#### Joint Research Centre

<http://ec.europa.eu/dgs/jrc/index.cfm>

#### European Energy Research Alliance (EERA)

<http://www.eera-set.eu/>

#### SETIS

<http://setis.ec.europa.eu/>



PROVIDING INFORMATION FOR **DECISION-MAKING**



LD-30-10-619-EN-C



Publications Office

